TYAN®

High Performance Computing Platform

2U 4-way SMP System with iKVM Solution

TN68-B4989-SI

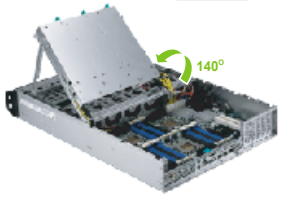
B4989T68W8HR-SI

AMD Opteron 64 | 45nm | Quad Core | DDPM | HT3 HyperTransport 3.0

■ Front View

■ Back View

■ Lift the rack of the power cage and bend it back to an angle of about 140°



2U, 4-way AMD Opteron™ platform designed for virtualization applications

- Four LGA 1207-pin sockets support up to (4) AMD 45nm Quad-Core Opteron™ 8300 series processors
- Support AMD Dual Dynamic Power Management (DDPM) feature
- nVIDIA nForce® Professional 3600 + 3050 (NFP 3600 + NFP3050)
- (32) 240-pin DDR2 DIMM slots support up to 256GB registered DDR2 667/533/400 w/ ECC memory;up to 128GB registered DDR2 800 w/ ECC memory
- (2) Low-Profile PCI-E x16 slots
- (2) Low-Profile PCI-E x8 slots
- (2) Low-Profile PCI-X 64/133MHz slots
- (8) hot-swap 3.5" SAS HDDs w/ RAID 0, 1, 1E support
- (2) GbE LAN
- (2+1) ERP1U 1,400W PSU w/ PFC, 80-PLUS
- Onboard iKVM solution

Model #	No. of HDD supported	Storage Backplane	Power Supply
B4989T68W8HR-SI	(8) Hot-swap SAS	8-port SAS/ SATA	1,400W, (2+1) RPSU

(Specifications are subject to change without notice. Items pictured may only be representative.)

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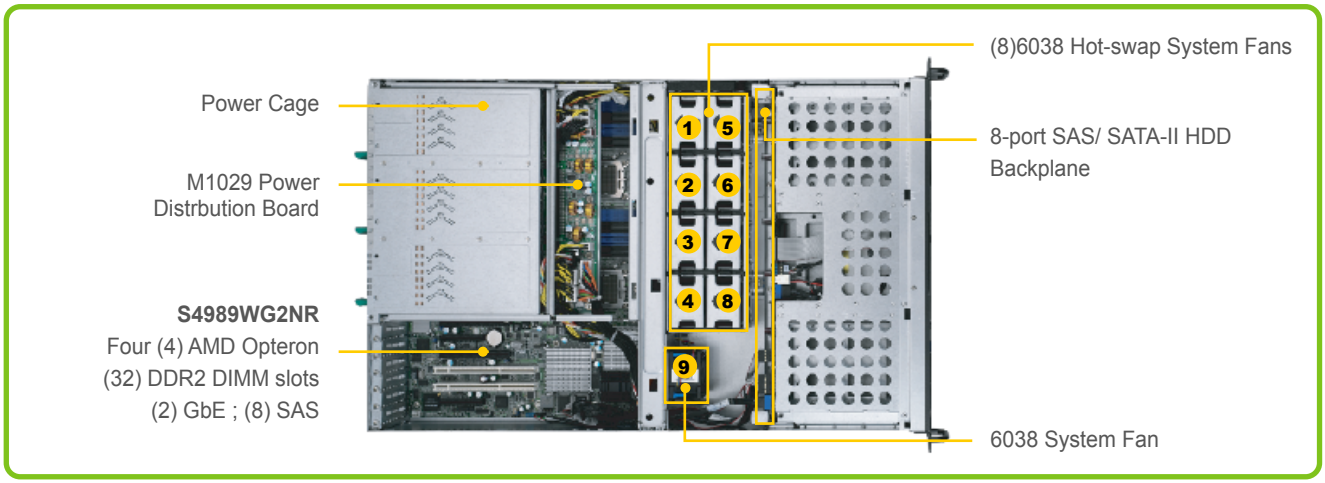
▼ TOP View



S P E C I F I C A T I O N S

Enclosure
- TYAN® TN68 industry standard 19" rack-mountable 2U chassis
  - (1) slim DVD-ROM bay
  - (8) 3.5" hot-swap HDD bays
- Dimension
  - H3.4" x W16.9" x D26.8"
  - H86.36mm x W429.26mm x D680.72mm

Processors
- Four LGA 1207 sockets
- Support up to (4) 45nm Quad-Core AMD Opteron™ 8300 series processors
- Support 4.4GT/s HyperTransport™ inter-processor link
- Support AMD Dual Dynamic Power Management (DDPM) feature

Chipset
- VIDIA nForce® Professional 3600 + 3050 (NFP 3600 + NFP 3050)
- Winbond 83627EHG Super I/O chip
- Winbond 83793G Hardware Monitoring IC

Memory
- Dual-channel memory bus
- (32) 240-pin DDR2 DIMM slots
- Support up to 256GB registered DDR2 667/533/400 w/ ECC memory
- Support up to 128GB registered DDR2 800 w/ ECC memory

Expansion Slots
- (2) Low-Profile PCI-E x16 slots
  - (1) x16 lane from NFP3600
  - (1) x8/ x16 lane from PERICOM PI2PCIE412-D (PCI-E Mux.)
- (2) Low-Profile PCI-E x8 slots
  - (1) x8 lanes from NFP3050
  - (1) x8/ x0 lane from PERICOM PI2PCIE412-D (PCI-E Mux.)
- (2) Low-Profile PCI-X 64/133MHz slots from PERICOM P17C9X130 (PCI-X Bridge)
- Total (6) PCI expansion slots

Integrated 2D / 3D PCI Graphics
- XGI Volari™ Z9s graphic controller
- PCI interface
- 32MB DDR video frame buffer memory

Server Management
- Onboard Raritan KIRA 100 supports KVM-over-IP function
- IPMI v2.0 compliant

BIOS
- AMI 8Mbit LPC Flash ROM
- Serial console redirect
- USB boot supported
- Supports APM1.2 and ACPI
- PnP, DMI, WfM power management
- S0/ S1/ S4/ S5 states supported

Integrated LAN Controller
- (1) Intel® 82571EB dual-port GbE LAN controller
- (1) Davicom® DM9161AE 10/100 PHY (dedicated for IPMI connection)
- WOL and PXE support
- Total (3) RJ-45 LAN ports (one for dedicate IPMI connection)

Motherboard
- B4989T68W8HR-SI
  - TYAN® S4989WG2NR-SI

Power Supply
- (2+1) ERP1U 1,400W PSU w/ PFC, 80-PLUS
- 100V~240V full-range AC input

Rear Panel I/O Ports
- (1) stacked PS/2 connectors for mouse and keyboard
- (2) stacked USB v2.0 ports
- (1) stacked DB-9 serial port and D-sub VGA port
- (3) side-by-side RJ-45 ports (one for dedicate IPMI connection)

Front Panel Features
- I/O
  - (2) USB 2.0 ports
- LED indicators
  - Power LED
  - (2) LAN LEDs
  - HDD Active LEDs
  - ID LED
  - Warning LED
- Switches
  - Power
  - Reset
  - ID
  - NMI

Storage
- Integrated LSI SAS1068E 8-port SAS controller
- (8) hot-swap 3.5" SAS HDDs w/ RAID 0, 1, 1E support
- Pre-installed slim type DVD-ROM for both SKUs

System Cooling
- (8) 60mm x 60mm x 38mm 12,000rpm hot-swappable heavy-duty fans with fan speed monitor and control
- (1) 60mm x 60mm x 38mm 12,000rpm heavy-duty fans with fan speed monitor and control
- (4) Passive CPU Heatsink

Environment Temperature
- Operating temperature: 5°C ~ 35°C
- Non-operating temperature: -40°C ~ 70°C

Regulatory
- FCC Class A (Declaration of Conformity)
- CE (Declaration of Conformity)

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